

Docket No. 99-006RCE1

Serial No. 09/460,174

**REMARKS**

This is in full and timely response to the Office Action mailed December 22, 2003. Claims 1-19 and 21-25 are currently pending for the Examiner's reconsideration, with claims 1, 10, 14, 16, 19 and 24 being independent.

**Rejections under 35 U.S.C. §112**

Claims 1-25 are rejected under 35 U.S.C. §112, first paragraph. Applicant respectfully traverses this rejection.

Applicant notes that claim 20 was canceled, and that this rejection is properly applied to claims 1-19 and 21-25.

**A. Alleged non-enabled element not in claims 19 and 24**

Applicant notes that this rejection states that "claims 1, 10, 14, 16, 19 and 24, the limitation "without attempting to first establish communication with another hard-terminal" was not specifically described in Applicant's specification." Office Action at page 2, middle paragraph. However, claims 19 and 24 were not amended to recite this phrase. Accordingly, this rejection is improper, and must be withdrawn as it relates to claims 19 and 21-25.

**B. Alleged non-enablement of claims 1, 10, 14 and 16**

Regarding the allegation that the claim element "without attempting to first establish communication with another hard-terminal" recited in claims 1, 10, 14 and 16 was not specifically described in Applicant's specification, and therefore not enabled, Applicant traverses this rejection.

Applicant acknowledges that the claimed element is not recited *verbatim* in the specification. However, this is not the test for enablement. For the application to be enabling, it must explain how to make and use the invention to one of ordinary skill in the art. As there is no rejection to the specification regarding enablement, the specification is de facto acknowledged to be enabled.

Still further, the specification and the claims may not be rejected as nonenabling under §112, first paragraph when details in the claims that are not directly disclosed (e.g., recited *verbatim*) in the specification are within the level of

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ordinary skill in the art. See *In Re Skrivan*, 427 F.2d 801, 166 USPQ 85, 88 (C.C.P.A. 1970).

Applicant asserts that one of ordinary skill in the pertinent art would know that according to the specification, the terminal 43 is not communicating with another terminal 43 prior to attempting to establish communication with a mobile data unit 51. See, for example, page 6, line 16 to page 7, line 17 and Fig. 2.

Accordingly, a prima facie case of nonenablement has not been established, and withdrawal of this rejection is requested.

When read as a whole, it is clear that what is being claimed is depicted in Fig. 2. More specifically, it is clear that the terminal 43 first determines the address of the mobile data unit prior to initiating a land-line to a data unit 70 that is local to the serving switch 63. See also page 6, line 16 to page 7, line 17. The claims were previously amended to recite the element "without attempting to first establish communication with another hard-terminal" in order to clearly distinguish the present claimed invention from the prior art, and to emphasize that the terminal 43 is not communicating with another terminal as disclosed in the applied reference prior to attempting to establish communications with the mobile unit.

Accordingly, withdrawal of this rejection is requested.

#### **Rejection of Claims under 35 U.S.C. §103(a)**

##### **Introduction**

Applicant's previous arguments are repeated below. As no rebuttal argument was made in the current Office Action (Paper No. 17), Applicant's arguments are de facto agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claims are believed to be in condition for allowance, and notice to that effect is requested.

#### **Rejection of Claims 1, 5-8, 14 and 16 under 35 U.S.C. §103(a)**

Claims 1, 5-8, 14 and 16 were rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,075,783 to Voit ("Voit"). Applicant respectfully traverses this rejection.

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Independent claim 1 is for a communication system that provides for an optimum connector path between a hard-wired terminal and a mobile data unit, including:

means for locating a serving switch of a wireless communication system that was last in contact with said mobile data unit without attempting to first establish communication with another hard-wired terminal

(emphasis added).

In contrast, Voit discloses a communication system that requires a communication attempt between two terminals or personal computers connected via the Internet before attempting to establish a communication link with a mobile phone. Specifically, as illustrated in Figure 1, the system of Voit discloses a system by which a person at a personal computer (PC) 1 communicates with another person located at another computer 6. However, if the called party is away from their computer 6, the system of Voit provides for the possibility of redirecting the call to another destination, such as a mobile phone.

Referring to Figure 2, Voit emphasizes that the calling process is initiated by the caller at PC 10 entering a Domain Name Address or a telephone number. The PC 10 then transmits this information to a modified Domain Name Server 13. See Voit, 9:7-11. This modified Domain Name Server (DNS) 13 provides a type of conditional processing. Specifically, the system is configured or programmed to query the computer at the called IP address to determine if it is 'live.' This is accomplished by the DNS 13, which sends a query to the destination address identified in the address table lookup. If the destination PC is on or 'live', the PC so notifies the server in response to the query. Then the DNS transmits the IP address of that computer back to the calling equipment, and the calling PC completes the call through the Internet using that IP address. See Voit, 10:15-30.

According to the above process, the system pings PC 18 to see if it is live. If the PC is off, a timer routine times out when there is no response to the query. Alternatively, the PC may be on but respond with a negative answer indicating that the called party is absent. If the PC is not live or returns a negative response, a check

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is then made to determine if the called person has either a wireline or cellular telephone to which communications can be established. See Voit, 10:33-40.

The above-described conditional processing provides a "follow-me" type of routing process whereby a call is directed to the current location of the called party, including the possibility of redirecting a call to a mobile phone, if the called party is not available at their computer. See Voit, column 12, lines 5-44, for a further example of this routing process. Based on the above, Voit discloses a system where the original intended communication is between two computers on the Internet. Only after the system has confirmed the absence of the called party at the destination computer, by "pinging" the computer, waiting for a response, and either not receiving a response or receiving a negative response, does Voit attempt to forward or redirect the call to another destination, such as a hard-wired or wireless phone.

In contrast, independent claim 1 recites a communication system that includes means for locating a serving switch of a wireless communication system that was last in contact with said mobile data unit without attempting to first establish communication with a hard-wired terminal. Accordingly, the invention of claim 1 is directed to a system designed specifically for providing communication between a computer on an alternate network, such as the Internet, and a mobile terminal. In contrast, Voit discloses a system for establishing a call between two computers on a network, with the subsequent possibility of redirecting the call to another destination, such as a mobile telephone, if the intended party is currently not at the computer. Such a routing system requires more processing and is more susceptible to delays during the call setup process. At least in view of the above, claim 1 is believed to be in condition for allowance, and the rejection should be withdrawn.

Claims 5-8 depend on claim 1, and as such, incorporate the unique features of claim 1 that distinguish it from the system of Voit. Accordingly, Claims 5-8 being dependent upon claim 1, are also allowable for the reasons above. Moreover, these claims are further distinguished by the materials recited therein, particularly within the claimed combination. Withdrawal of the §103 rejection is therefore respectfully solicited.

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Similar to claim 1, independent claim 14 recites a telephone system for communicating between a hard-wired terminal and a mobile terminal, including the use of a "temporary local directory number to establish communication with said mobile terminal, without attempting to first establish communication with another hard-wired terminal, through use of said Internet based protocol network and a public switch telephone network."

However, unlike current claims 1 and 14, the system of Voit, as discussed above, requires that a communication link first be established between the originating computer and a receiving computer, both of which are hard-wired to the Internet, before any communication is redirected to another possible destination, such as, a mobile phone.

Independent claim 16 recites a method for providing a connector path between a hard-wired terminal and a mobile terminal, including the step of "communicating with said mobile terminal without attempting to first establish communication with another hard-wired terminal." In contrast, the system of Voit redirects a communication to a wireless device only after acknowledging that the intended recipient is not available at a computer connected to the Internet.

At least in view of the foregoing, claims 14 and 16 are believed to be in condition for allowance, and withdrawal of the §103 rejection is requested.

**Rejection of Claims 2, 3, 9 and 15 under 35 U.S.C. §103(a)**

Claims 2, 3, 9 and 15 were rejected under 35 U.S.C. §103(a) as being unpatentable over Voit in view of U.S. Patent No. 6,078,575 to Dommetry et al. ("Dommetry"). Applicant respectfully traverses this rejection.

Claims 2, 3, 9 depend on claim 1 while claim 15 depends on claim 14. As such, unlike Voit, these dependent claims call for a communication or telephone system that does not attempt to first establish communication with another hard-wired terminal before establishing communication with a mobile terminal. The reference of Dommetry, which is cited merely for its use of a visited location register (VLR), fails to provide for the deficiencies of Voit. Accordingly, this rejection is traversed.

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Claims 2, 3 and 9, being dependent upon claim 1, and claim 15, being dependent upon claim 14, are also allowable for the reasons above. Moreover, these claims are further distinguished by the materials recited therein, particularly within the claimed combination. Withdrawal of the §103 rejection is therefore respectfully solicited.

Additionally, as no rebuttal argument was made to the above in the current Office Action, and there is no proper §112, first paragraph rejection, Applicant's arguments are taken as agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claimed are believed to be in condition for allowance, and notice to that effect is requested.

**Rejection of Claim 4 under 35 U.S.C. §103(a)**

Claim 4 was rejected under 35 U.S.C. §103(a) as being unpatentable over Voit and Dommety in view of U.S. Patent No. 5,636,209 to Perlman ("Perlman"). Applicant respectfully traverses this rejection.

Claim 4 depends from claim 3, which in turn depends from claim 1. As such, dependent claim 4 incorporates the previously discussed unique features that distinguish claim 1 over both Voit and Dommety. Furthermore, Perlman is cited merely for its use of a plurality of modems, and thus like the reference of Dommety, similarly fails to provide for the deficiencies of Voit. Accordingly, this rejection is traversed.

Claim 4, being dependent upon claim 1, is also allowable for the reasons above. Moreover, this claim is further distinguished by the materials recited therein, particularly within the claimed combination. Withdrawal of the §103 rejection is therefore respectfully solicited.

Additionally, as no rebuttal argument was made to the above in the current Office Action, and there is no proper §112, first paragraph rejection, Applicant's arguments are taken as agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claimed are believed to be in condition for allowance, and notice to that effect is requested.

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**Rejection of Claims 10, 11 and 17-21 under 35 U.S.C. §103(a)**

Claims 10, 11 and 17-21 were rejected under 35 U.S.C. §103(a) as being unpatentable over Voit in view of Dommety. Applicant respectfully traverses this rejection.

**I. Rejection of Claims 10, 11, 17 and 18**

Independent claim 10, as amended, calls for a telephone system wherein:

a communication link is established between said hard-wired terminal and said wireless data unit without first attempting to establish a communication link with another hard-wired terminal.

(emphasis added).

As previously discussed, the system of Voit requires the attempt of establishing a telecommunication link between two hard-wired terminals before a call can be redirected to another destination. Similarly, Dommety, which was cited for its use of a visited location register (VLR), also fails to disclose such a requirement. Accordingly, independent claim 10 is in condition for allowance, and withdrawal of the rejection is requested.

Claims 11, 17 and 18, being dependent upon claim 10, are also allowable for the reasons above. Moreover, these claims are further distinguished by the materials recited therein, particularly within the claimed combination. Withdrawal of the §103 rejection is therefore respectfully solicited.

Additionally, as no rebuttal argument was made to the above in the current Office Action, and there is no proper §112, first paragraph rejection, Applicant's arguments are taken as agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claimed are believed to be in condition for allowance, and notice to that effect is requested.

**II. Rejection of Claims 19, 20 and 21**

Independent claim 19, as amended, calls for a system for communicating between a hard-wired terminal and a wireless data unit, including:

A home location register addressable by said server but not associated with a home mobile switch

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(emphasis added).

As previously raised during Applicant's prior response to the Office Action of May 9, 2002, the current state of mobile phone technology requires a home location register (HLR) to be associated with a switching center or mobile switch. (See the second paragraph of page two of the specification, along with Figure 1, items 19 and 23) The switching center interacts with the HLR to provide for call control and processing. The switch also serves as a point-of-access to the public switched telephone network (PSTN). This is the standard in the art.

However, as emphasized in the first full paragraph on page 3 of the specification, due to the unique way that the claimed invention integrates an alternate non-public switched network with a wireless network, the "HLR used by this invention has *no associated switching matrix*." As a result of this, "*all mobile stations are always in a roaming state*." This unique aspect of the present invention is now incorporated into independent claim 19 and, subsequently, dependent claim 21, which call for the present invention to include "a home location register (HLR) addressable by said server [of the alternate non-public switched telephone network] *but not associated with a home mobile switch*."

In contrast to claims 19 and 21, both Voit and Dommety fail to disclose the use of a home location register (HLR) that is not associated with a home mobile switch. In fact, it can be presumed that Voit actually requires the use of a HLR that *is* associated with a switching matrix as Voit simply discusses the use of a standard cellular or PCS system that includes the use of an "analog or digital telephone of some common type." See Voit, 10:48. Similarly, Dommety emphasizes throughout its disclosure the association of location registers with switches. For example, see Figure 9, which illustrates the hierarchically-organized location registers, represented by squares, and their associated switches, represented by circles.

Accordingly, both Voit and Dommety, which simply disclose the standard in the art of mobile communications, fail to disclose, teach or suggest the invention as recited in claim 19. For the above reasons, Applicant respectfully requests that this rejection be withdrawn.



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Still further, claims 20 and 21, being dependent upon claim 19, are also allowable for the reasons above. Moreover, these claims are further distinguished by the materials recited therein, particularly within the claimed combination.

Withdrawal of the §103 rejection is therefore respectfully solicited.

Additionally, as no rebuttal argument was made to the above in the current Office Action, and there is no proper §112, first paragraph rejection, Applicant's arguments are taken as agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claimed are believed to be in condition for allowance, and notice to that effect is requested.

**Rejection of Claims 12 and 13 under 35 U.S.C. §103(a)**

Claims 12 and 13 were rejected under 35 U.S.C. §103(a) as being unpatentable over Voit in view of Dommety and Perlman. Applicant respectfully traverses this rejection.

Claims 12 and 13 both depend from independent claim 10. As previously discussed, neither Voit nor Dommety disclose a communication system where a communication link is established between a hard-wired terminal and a wireless data unit without first attempting to establish a communication link with another hard-wired terminal. Similarly, Perlman, which was cited simply for its use of a plurality of modems, also fails to disclose any such type of requirement. Accordingly, Applicant respectfully requests that this rejection be withdrawn.

Still further, claims 12 and 13, being dependent upon claim 10, are also allowable for the reasons above. Moreover, these claims are further distinguished by the materials recited therein, particularly within the claimed combination.

Withdrawal of the §103 rejection is therefore respectfully solicited.

Additionally, as no rebuttal argument was made to the above in the current Office Action, and there is no proper §112, first paragraph rejection, Applicant's arguments are taken as agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claimed are believed to be in condition for allowance, and notice to that effect is requested.

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**Rejection of Claims 22 and 23 under 35 U.S.C. §103(a)**

Claims 22 and 23 were rejected under 35 U.S.C. §103(a) as being unpatentable over Voit in view of Dommety and Perlman. Applicant respectfully traverses this rejection.

Claims 22 and 23 both depend from independent claim 19. As previously discussed, neither Voit nor Dommety disclose a communication system that includes the use of a home location register that is addressable by a server but not associated with a home mobile switch. Similarly, Perlman also fails to disclose a communication system that utilizes a HLR that is not associated with a home mobile switch. Accordingly, Applicant respectfully requests that this rejection be withdrawn.

Still further, claims 22 and 23, being dependent upon claim 19, are also allowable for the reasons above. Moreover, these claims are further distinguished by the materials recited therein, particularly within the claimed combination. Withdrawal of the §103 rejection is therefore respectfully solicited.

Additionally, as no rebuttal argument was made to the above in the current Office Action, and there is no proper §112, first paragraph rejection, Applicant's arguments are taken as agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claimed are believed to be in condition for allowance, and notice to that effect is requested.

**Rejection of Claims 24 and 25 under 35 U.S.C. §103(a)**

Claims 24 and 25 were rejected under 35 U.S.C. §103(a) as being unpatentable over Voit in view of Perlman. Applicant respectfully traverses this rejection.

Independent claim 24, as amended, calls for a method of communicating between a hard-wired terminal and a wireless data unit, including the step of:

establishing communication between said alternate non-public switch telephone network and a wireless network, said wireless network including a home location register addressable by said server but not associated with a home mobile switch

(emphasis added).

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However, as previously discussed, Voit fails to disclose any form of communication system that utilizes a home location register (HLR) that is not associated with a home mobile switch. Instead, Voit simply relies on the use of a traditional cellular network as represented by the standard in the art. Perlman, cited for its use of a plurality of modems, does not even disclose the use of a wireless network. Accordingly, Applicant respectfully requests that this rejection be withdrawn.

Still further, claims 25, being dependent upon claim 24, is also allowable for the reasons above. Moreover, this claim is further distinguished by the materials recited therein, particularly within the claimed combination. Withdrawal of the §103 rejection is therefore respectfully solicited.

Additionally, as no rebuttal argument was made to the above in the current Office Action, and there is no proper §112, first paragraph rejection, Applicant's arguments are taken as agreed to by the examiner, and no rejection is currently pending against these claims. Accordingly, these claimed are believed to be in condition for allowance, and notice to that effect is requested.

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**CONCLUSION**

As no rebuttal argument was made in the current Office Action (Paper No. 17) to Applicant's previous §103 arguments for all pending claims, Applicant's §103 arguments are de facto agreed to by the examiner. As no proper §112, first paragraph rejection was made against claims 19 and 21-25, Applicant believes that no rejection is currently pending against these claims. Accordingly, Applicant believes that claims 19 and 21-25 are in condition for allowance, and notice to that effect is requested.

For the foregoing reasons, claims 1 – 19 and 21-25 are believed to be in condition for allowance, and the application is in condition for allowance. Accordingly, favorable reexamination and reconsideration of the application in light of these remarks is courteously solicited. If the examiner has any comments or suggestions that would place this application in even better form, the Examiner is requested to telephone the undersigned attorney at the number below.

All objections and rejections having been addressed, it is respectfully submitted that the present application is in condition for allowance, and a Notice to that effect is earnestly solicited.

Any fees associated with the filing of this paper should be identified in any accompanying transmittal. However, if any additional fees are required, they may be charged to Deposit Account 07-2347.

Respectfully submitted,

Dated: December 22, 2003

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